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File No 90-42

Serial Nos 40, 48

Previous References

Later References

GENERAL AND REVENUE SECRETARIAT

Serial Nos

Part B for March 43

SUBJECT

Reduction of Thickness of cement Concrete bed below manholes from one foot to 6 inches

2 Dy Dir of P.H
1 " Chief Engr
Comptroller
1 Dy Comr Bridges
8934-7 & 6363
Sanction the proposal

27/4

4767/2 Bangalore city Drainage

Continuation Sheet Ml File No / Current No 90 of 42 Page 1

Fm: The Dir of P It

No C81-625 & 8243

Ml 40

Requests approval to the proposal of the Special officer, Bl'ore city Drainage re the reduction from 9" foot to 6" in the thickness of the Cement Concrete Bed beneath the manholes resulting in the reduction of the tendered rate for the manholes of 6' and 7' dia by Rs 9 and Rs 12-5-6 respectively

And) The proposed change in the thickness has been suggested ~~and~~ to be adopted whenever the foundation is hard and it will serve as a measure of economy The Chief Engineer is stated to be agreeable to the proposal

Submitted for orders

Ltd 22/2 & 23/2 3 The proposal of the Special officer, Bl'ore city Drainage Division has been agreed to by the Chief Engineer & the Dir of P It & may be approved, as it results in econo

Law Secy 24/2/43

4 May be approved as it results in economy without affecting the quality

Chief Engr 23/2/43

Secy 23 2 43

Minister 25/2/43

10126

Fr L Gr TIF I T R I
FOR L S G P H
Dt 23 2 43
N 6827

28 2 43
Secy 1-3-43

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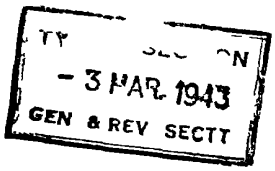
Continuation Sheet — File No / Current No 90 — of 62 — Page

Draft ltr
1/Nov

Draft R.O. sent up for ASW
Ltr
2/3
2/3



The D of P M
The C of Engr
The Comptroller
The Asst Comdt, Bklyn Navy
L 8934-7 dy 6 3 43
Sanctions the proposal

By
17/3
17/3

From the Chief Engineer, Bangalore, to the Director of Public Health

ML 90-42-40

No C 81-629
Enc two

4767

OFFICE OF THE
DIRECTOR OF PUBLIC HEALTH
IN MYSORE

Bangalore dated 6th February 1943

To

The Secretary to Government,

Law Department, Bangalore

SIR

Reduction of the thickness of cement concrete bed below manholes from one foot to 6 inches and sanction to the resultant reductions of Rs 9/- and Rs 12-5-0 in the cost of manholes of 6 & 7 diameter respectively

I have the honor to state that the Special Officer, Bangalore City Drainage Division in his letter No 162 dated 8-1-43 proposed, as a measure of economy, and without sacrificing the quality of the work, the reduction of the thickness of cement concrete bed from one foot to 6" in thickness in case of fair foundations, viz, hard, gravelly and rocky soils retaining however 1 foot as hitherto in cases where the foundations are soft or watery

The Chief Engineer of Mysore, on enquiry opines in his letter No 13598 dated 30-1-43 agreeing with the proposal of the Special Officer

As a result of the above proposal being given effect to, the tender rates for manholes of 6 & 7' diameters will have to be reduced by Rs 9/- and Rs 12-5-0 respectively

I request you to be so good as to obtain and convey sanction of Government to the above proposal and to the deductions of Rs 9/- and Rs 12-5-0 in the tendered rates for manholes of 6 & 7' diameter each respectively

Copies of letters Nos 162 and 182 dated 8th and 29th January 1943 with enclosure of Special Officer and letter of the Chief Engineer

Engineer on the subject are enclosed for the information of Government

I have the honour to be,
Sir,
Your most obedient servant,

[signature]
Director of Public Health

JBR

Letter o 182 dated 29th January 1943 from the Special Officer City Drainage Division, Bangalore, to the Director of Public Health in Mysore, Bangalore

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Re Deduction to be made in the tendered rates for manholes, due to the reduction of thickness of cement concrete Bed under the manholes

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In continuation of this office No 162 dated 8-1-43, regarding the reduction of the cement concrete bed under manholes from 1 to 6 , as 1 thickness is unnecessary and a large quantity of cement and cost of manholes will be saved, I have the honour to state that the tendered rates for manholes allow for and include 1' thickness of cement concrete of proportion 1 2½ 5 If this is reduced to 6 as now proposed separately in this office No 162 dated 8-1-1943 referred to above, a deduction corresponding to this has to be made in the tendered rates for manholes As per calculation sheet submitted herewith, at the schedule rate of 0-10-0 per Cft for cement concrete of 1 2½ 5 proportion the deduction to be made for a 6' diameter manhole will be Rs 9/- and for a 7' diameter manhole Rs 12-5-0 Sanction of Government to these rates of deduction per manhole, may kindly be obtained early, pending which the payment for this item is being deferred

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Letter o 162 dated 8th January 1943 from the Special Officer, City Drainage Division, Bangalore, to the Director of Public Health in Mysore, Bangalore

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Reduction of the thickness of cement concrete bed below manholes from one foot to 6 inches

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I have the honour to state that owing to the difficulty experienced in obtaining cement, it has become very necessary to find possible means of effecting economy in the use of cement for drainage works One of the ways of saving cement without sacrificing the quality of the work is to reduce the thickness of cement concrete bed from one foot to 6 inches for manholes to be constructed henceforward on hard, gravelly and rocky soils By this reducing the thickness to 6 it will be possible to save the rate of two bags for each manhole Assuming that atleast 180 manholes will be constructed during the remaining part of the current year, the total quantity of cement that could be saved in

this

this manner will be approximately 180 x 2 = 360 bags or 18 tons of cement This is very substantial savings and this quantity could be used for constructing additional manhol s and secure greater progress during the current year

The proportionate cost as worked out at the rate provided in the schedule for cement concrete of 1 $2\frac{1}{2}$ 5 proportion will be deducted from the tendered rate for manholes

I request you to kindly convey approval for this modification in design The superincumbent load of the weight of the manhole walls does not structurally require a thickness of cement concrete bed of 1 2½ 5 proportion, of more than 6 inches, as against the 1 foot thickness which is now adopted, particularly in case of fair foundations In places where foundations are soft or watery, the original 1 foot thickness will be retained In view of the urgency, the manholes to be commenced from next week will be constructed on cement concrete bed of 6 in thickness instead of one foot as at present sanctioned, in case of fair foundations and one foot in cases where they are soft or watery The usual depth of manholes is about 6 feet or less with 9 brick walls and 6 feet diameter and the maximum depth is about 10 feet to 12 feet in very few cases

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Letter No 13598 dated 30-1-43 ~~xx~~ from the Chief Engineer of Mysore, Bangalore, to the Director of Public Health in Mysore, Bangalore

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DRAINAGE WORKS

With reference to your letter No. 81-572 dated 9-1-43, I have the honour to inform you that I agree with the view expressed by the Special Officer Bangalore City Drainage Division that the thickness of the cement concrete bed for manholes to be constructed in future on hard gravelly and rocky soil may be reduced from one foot to six inches

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Copy

C Ramaswamy

Director of Public Health

JBR

Drainage Division — Bangalore City

Data for the reduction in rates due to the reduction in thickness of Cement Concrete bed from 1 ft to 6 inches

No	Details	No	Dimensions	Content	Total Qty	Per	Rate	Cost	No
I	Manholes with 9" thick walls and 6 ft diameter bed								
(1)	Excavation reduced by ½ foot	1	$\frac{22}{7} \times \frac{6^2}{4} \times \frac{1}{2}$	14					
	Total				0 50	cyd	Sch R 0 6 0	0 3-0	
(2)	Cement Concrete (of 1-2½-5 proportion) thickness reduced by ½ foot	1	$\frac{22}{7} \times \frac{6^2}{4} \times \frac{1}{2}$	14 14					
	Total				14 14	cft	Sch R 0 10 0	8-13-0	
	Total amount of reduction								Rs 9/-
II	Manholes with 1⅛' thick walls and 7' diameter bed								
(1)	Excavation reduced by ½ foot	1	$\frac{22}{7} \times \frac{7^2}{4} \times \frac{1}{2}$	19¼					
	Total				0 71	cyd	Sch R 0 6 0	0 4-0	
(2)	Cement Concrete (of 1 2½ 5 proportion) thickness reduced by ½ foot	1	$\frac{22}{7} \times \frac{7^2}{4} \times \frac{1}{2}$	19¼					
	Total				19¼	cft	Sch R 0 10 0	12-4-0	
	Total amount of reduction								Rs 12/5

K J John 29 1/43

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SUBJECT

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Diary No of letter replied to

General and Revenue Secretariat

( ) }
the *193* }

Date of issue 6/3 193

Signed by W.N. G R Rao

May this be—

( ) printed ?

(ii) tested as a standing order ?

(iii) published in the Gazette Fnglish Part ?

(iv) translated ?

( ) placed at the disposal of the press ?

( ) published in the Gazette Kannada Part ?

Section Jul

File No 90-62

Serial No 48

Proceedings of the Government of His Highness the Maharaja of Mysore

Read—Letter No C81-62 9 0 2 4 3 from the Dy Sec to Mysore requesting approval, in the circumstances stated, to the proposal of the Special Officer Bangalore City Drainage scheme in regard to the Reduction from one foot to 6 inches in the thickness of the Cement-Concrete bed beneath the Manholes resulting in the reduction of the sanctioned rates for the manholes of 6 feet and 7 feet diameter by Rs 9 and Rs 12-8-0 respectively and adding that the proposal has been agreed to by the Order thereon—No

Chief Engr as a measure
of economy Without
affecting the quality of the
Work-

order No L 8984-7

Approved

for

for Secy to Govt
Veh Law Dept

To: The Dir of P I ✓
The Chief Engr of Mys R'w D ✓
The Controller to Govt ✓
in Mt cmr Bangalore

List of Enclosure

Copied by

Examined by

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